



Launch Mission Execution Forecast

Vehicle: Falcon 9 BulgariaSat-1

Issued: 22 June 2017/1100 UTC (0700 EDT)

Valid: 23 June 2017/1810 – 2010 UTC (1410 – 1610 EDT)

Synoptic Discussion: Tropical Storm Cindy made landfall near the Texas/Louisiana border ~0200 EDT this morning. The storm continues to move northward today and should gradually weaken and begin a northeastward track tonight. Weather in Central Florida will continue its favorable trend of decreasing thunderstorm coverage through the weekend. Winds in the low and mid-levels become more southeasterly helping steer sea breeze generated convection away from the Space Coast. An isolated shower over the Spaceport during the morning hours is the main weather concern for the next few days. Winds will be breezy from the southeast each afternoon with gusts to 25 mph. Beginning Friday, an upper-level ridge and associated dry air will build over the Florida peninsula producing favorable launch conditions for ~48-72 hours. Expect a small threat for on-shore showers in the morning hours with cumulus clouds forming mainly west of the Spaceport during the latter part of the countdown. The main weather concern will be cumulus clouds. Maximum upper-level winds will be from the southeast at 20 knots near 44,000 feet.

On Saturday, similar favorable conditions are expected with a slight increased threat for cumulus cloud formation closer to the pad; however, the main cumulus field should be focused over the western portions of the Spaceport. Maximum upper-level winds will be southerly at 20 knots at 41,000 feet.

Clouds

Cumulus

Coverage

Scattered

Bases (feet)

3,000

Tops (feet)

15,000

Weather: None

Surface Visibility: 7 miles

Liftoff Winds (MPH): 120° @ 15 P20 (200')

Temperature: 85°F

Solar Activity: Low

Pressure: 30.03 inHg

RH: 70%

Launch day probability of violating launch weather constraints:

10%

Primary concern(s): Cumulus Cloud Rule

Delay day probability of violating launch weather constraints:

20%

Primary concern(s): Cumulus Cloud Rule

Sunrise: 23/0626 EDT
24/0627 EDT

Sunset: 23/2024 EDT
24/2025 EDT

Moonrise: 23/0601 EDT
24/0702 EDT

Moonset: 23/2002 EDT
24/2104 EDT

Illumination: 1%
0%

Next forecast will be issued: AS REQUIRED